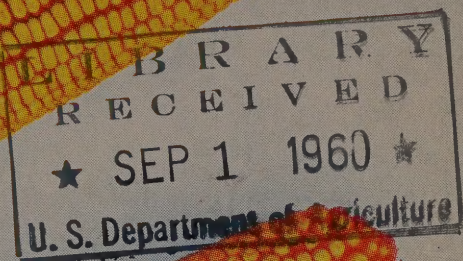


62

1960/61



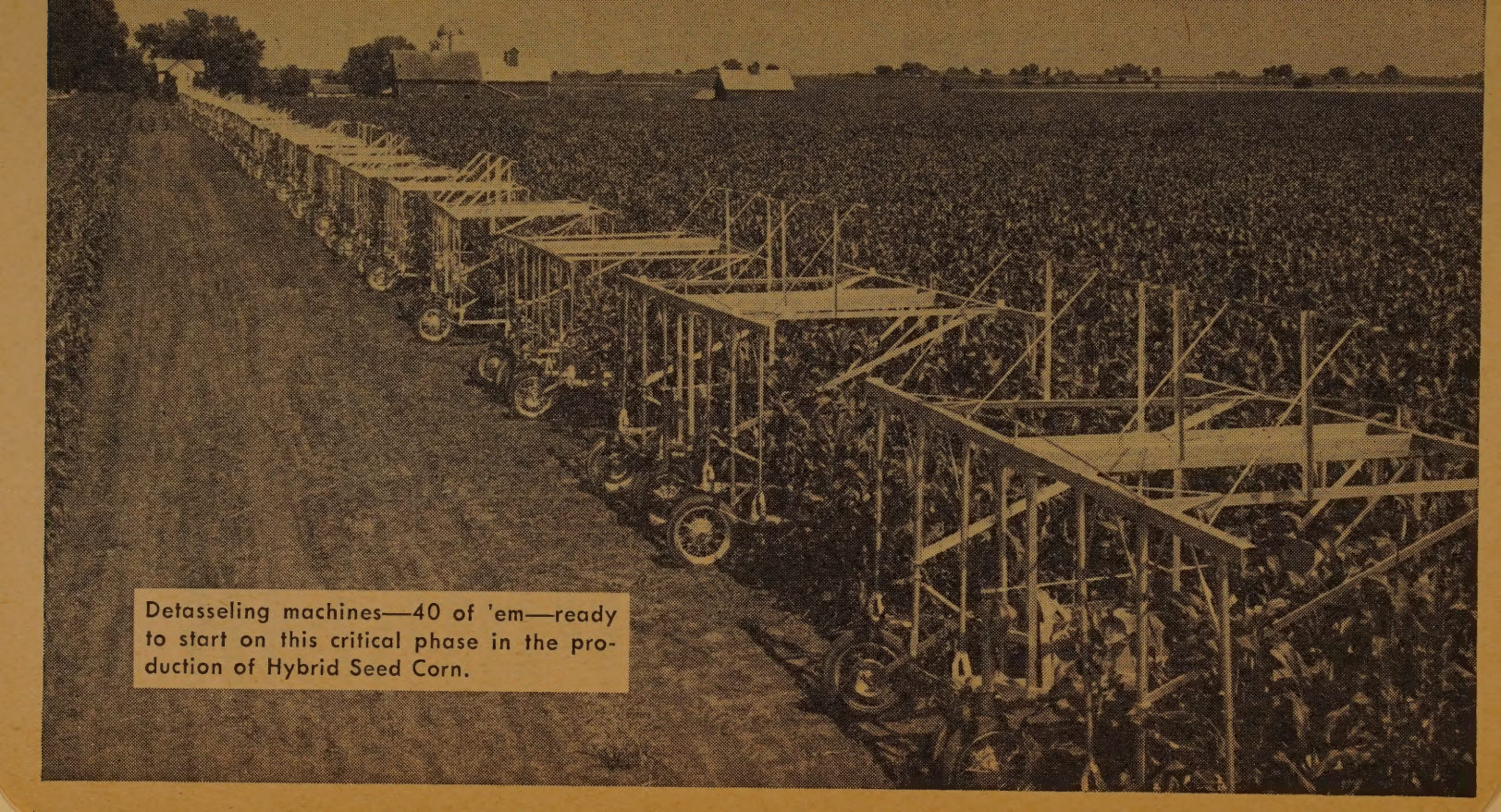
187 HYBRID GUIDE



PFISTER CORN CO., EL PASO, ILL.



Lester Pfister and sons Walter and Jerry
look over the 12-row planter used for
the first time in the spring of 1956.

A black and white photograph showing a long, single-file line of detasseling machines stretching across a vast cornfield. The machines are positioned in the middle of the field, with rows of corn on either side. They are moving away from the viewer towards the horizon. The machines have a complex frame with multiple sets of wheels and a central mechanism for detasseling. In the background, a few farm buildings and trees are visible under a clear sky.

Detasseling machines—40 of 'em—ready to start on this critical phase in the production of Hybrid Seed Corn.

WHAT ALL CORN FARMERS SHOULD REMEMBER ABOUT

Single Cross

HYBRID SEED CORN

Pure single cross seed is not an experimental hybrid. It is exactly the same seed used by our seed company as foundation seed for producing our double cross hybrids during the past twenty-seven years. It is expensive seed to produce because it is grown only on inbred plants.

I recommend that in buying single cross seed you be sure you are getting the pure single cross seed—a cross of two pure unrelated inbred lines and that you buy it on the basis of cost per acre, not on the cost per bushel.

Because of so many widely variable conditions in the Corn Belt, it is impossible to develop any one hybrid, either single or double cross, that will be better than all others, on all farms, everywhere and every year. I recommend that you compare all yields on basis of crop actually harvested with your picker, combine or picker-sheller and then decide for yourself if single cross seed is a profitable investment on your own farm.

Lester Pfister

Maximum hybrid vigor, yield,
quality, standability, insect
tolerance and drought
resistance can be obtained
only by crossing two pure,
unrelated, adapted inbred
lines as a pure single cross.

With recent improvement in
inbred lines — plus new and
modern production methods —
it is now possible and practical
to produce this type
of hybrid seed in large volume
and at a reasonable cost to
corn belt farmers.



by *Lester Pfister*

El Paso, Illinois

HOW MUCH TO PAY FOR CUSTOM WORK

The figures below are intended to serve only as a guide in figuring costs and in setting rates for custom work.

The figures include a charge for cost of ownership—depreciation, interest on investment, taxes and insurance, and housing. They also include cost of operation—fuel or power, repairs, and lubrication.

The rates are based on work done under normal conditions. Long rows, large fields, or other favorable factors could reduce costs slightly. Small or irregular fields, point rows, soil conditions, and the like could push costs higher.

A charge for labor is NOT included. This varies with local conditions, so add your own figure. Supply and demand may vary the rates, but they serve as a guide.

Suggested charge under
normal conditions
(labor NOT included)

Farm operation	Per hour	Per acre
Tillage:		
Plowing, 2-bottom.....	\$2.50.....	\$2.75
Plowing, 3-bottom.....	3.00.....	2.50
Disk harrow, 15-foot single.....	2.00.....	0.50
Disk harrow, 10-foot tandem....	2.50.....	0.80
Disk harrow, 14-foot tandem....	3.00.....	0.70
Spike-tooth harrow, 22-foot.....	1.80.....	0.25
Spring-tooth harrow, 17-foot....	2.00.....	0.65
Packing, double-gang corrugated roller.....	2.00.....	0.65
Planting:		
Drill, small-grain, 11-foot.....	3.00.....	0.80
Drill, small-grain, 11-foot, with fertilizer attachment and grass seeder.....	4.25.....	1.10
Endgate seeder.....	1.25.....	0.30
Packer seeder.....	2.50.....	0.65
Plant corn, drill, 2-row.....	1.50.....	1.00
Plant corn, drill, 4-row.....	3.00.....	0.90
Plant corn, check, with fertilizer, 2-row.....	1.75.....	1.20

Plant corn, check, with fertilizer, 4-row.....	4.00.....	1.00
Plant corn, check, with fertilizer, 6-row.....	5.00.....	1.00

Cultivation:

Rotary hoe or weeder, 2-row.....	1.80.....	0.50
Rotary hoe or weeder, 4-row.....	2.50.....	0.40
Cultivate, 2-row.....	1.75.....	0.85
Cultivate, 4-row.....	3.00.....	0.70
Cultivate, 6-row.....	4.00.....	0.70
Cultivate and fertilize, 2-row....	2.00.....	1.05
Cultivate and fertilize, 4-row....	3.25.....	0.90

Harvesting:

Corn picking, 2-row.....	6.50.....	3.25
Combining direct or pick-up.....	7.00.....	3.50
Corn combining.....	8.00.....	4.00
Windrowing.....	2.50.....	0.85
Forage harvesting, corn and sorghum.....	6.00.....	6.00
Forage harvesting, grass and legume.....	5.00.....	5.00

Haying:

Mowing or pasture clipping.....	2.25.....	0.75
Raking, side delivery.....	2.50.....	0.80
Baling, field pickup.....	0.11 per bale, not per hour	
Field chopping.....	6.00.....	

Fertilizing:

Spread commercial fertilizer, broadcast.....	2.25.....	0.70
Tractor and manure loader.....	2.00.....	

Spraying:

Sprayer, tractor with attached or trailer-type boom.....	2.00.....	
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Miscellaneous:

Cut cornstalks, 2-row, rotary-type.....	2.50.....	1.20
Saw wood, chain saw.....	2.50.....	
Tractor only, 2-plow.....	1.25.....	
Tractor only, 3-plow.....	1.50.....	
Tractor only, 4-plow.....	1.75.....	
Shell corn.....	2½c per bushel...	
Dry shelled corn or small grain..	1c per bushel per per- cent of moisture re- moved; 5c minimum charge per bushel	

POPULATION PER ACRE

Row Spacing 3'4"

Hill drop	2 per hill	3 per hill	4 per hill
19" spacing	16,504	24,756	33,008
25" spacing	12,544	18,816	25,088
29" spacing	10,814	16,221	21,628
33" spacing	9,502	14,253	19,004
Checked Corn			
3'4" x 3'4"	7,840	11,760	15,680
Drilled corn			
3'4" x	8" 19,600	14" 11,200	18" 8,710

AVERAGE ACRES PER BUSHEL OF SEED
HILL DROP 2 KERNELS PER HILL

Row Spacing 3'4"

	MF	MLF	LF	MT	MLT	MR	MLR
19" spacing	4.59	3.95	3.61	4.24	3.83	4.08	3.65
25" spacing	6.04	5.20	4.76	5.58	5.04	5.37	4.80
29" spacing	7.01	6.04	5.52	6.47	5.85	6.23	5.57
33" spacing	7.98	6.87	6.28	7.37	6.66	7.09	6.34

At 3 per hill reduce acreage by $\frac{1}{4}$

At 4 per hill reduce acreage by $\frac{1}{2}$

AVERAGE ACRES PER BUSHEL OF SEED

Checked at 3'4" x 3'4"

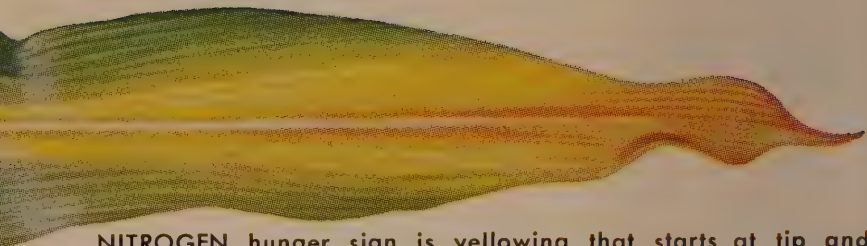
	MF	MLF	LF	MT	MLT	MR	MLR
3 kernels per hill	6.30	5.43	4.97	5.83	5.27	5.61	5.02
4 kernels per hill	4.73	4.08	3.73	4.37	3.95	4.21	3.76

LP 112

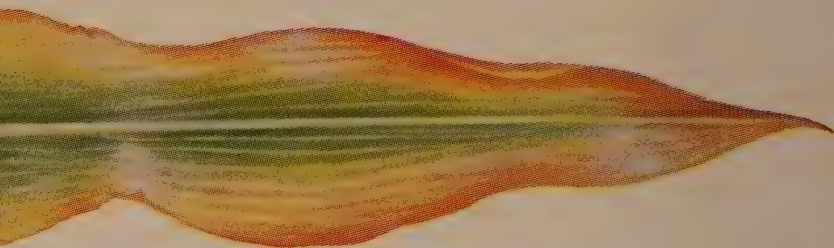


Our earliest hybrid with large well formed utility type ears. Stalks are medium to low in height with medium-low ears. It is well adapted to North and North Central sections of the Corn Belt.

BE YOUR OWN



NITROGEN hunger sign is yellowing that starts at tip and moves along middle of leaf.



POTASH deficiency appears as a firing or drying along the tips and edges of lowest leaves.

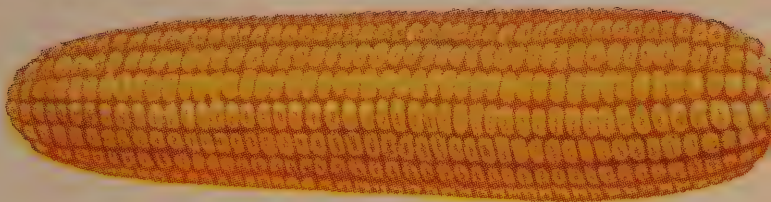


PHOSPHATE shortage marks leaves with reddish-purple, particularly on young plants.

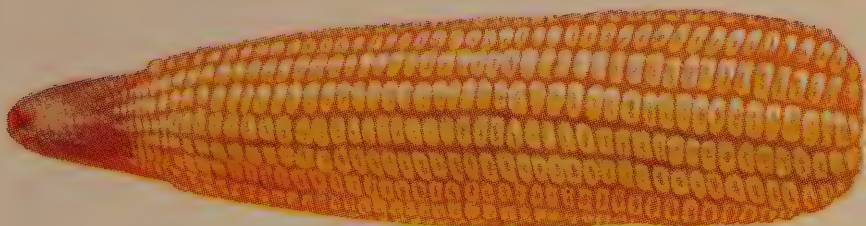


HEALTHY leaves shine with a rich dark green color when adequately fed.

CORN DOCTOR



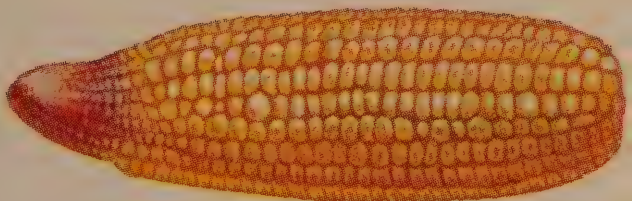
SMALLER THAN NORMAL SIZED EARS usually are a sign of low fertility. For better yields, boost fertilizer application.



POTASH shortage shows up in ears with poorly filled tips and loose chaffy kernels.



PHOSPHATE shortages interfere with pollination and kernel fill. Ears are small, often are twisted and with undeveloped kernels.



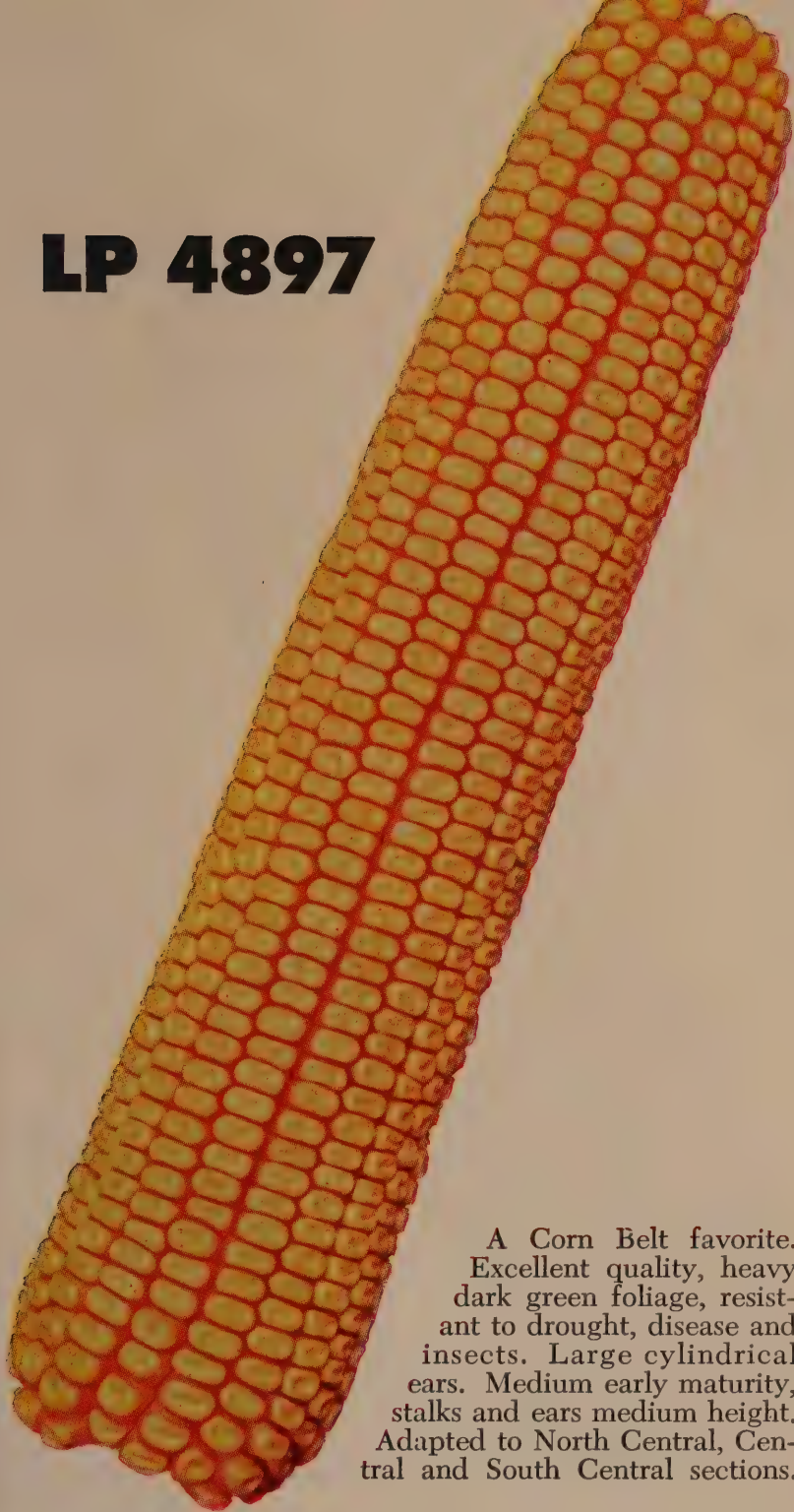
NITROGEN is essential throughout the growing season. If plant runs out of nitrogen at critical time, ears are small and protein content is low. Kernels at tip do not fill.

LP 444



A popular addition to our triple number hybrids. Insect and disease resistant. Excellent quality grain on uniform ears and stalks. Stalks and ears are medium height. Adapted to North Central and Central sections.

LP 4897



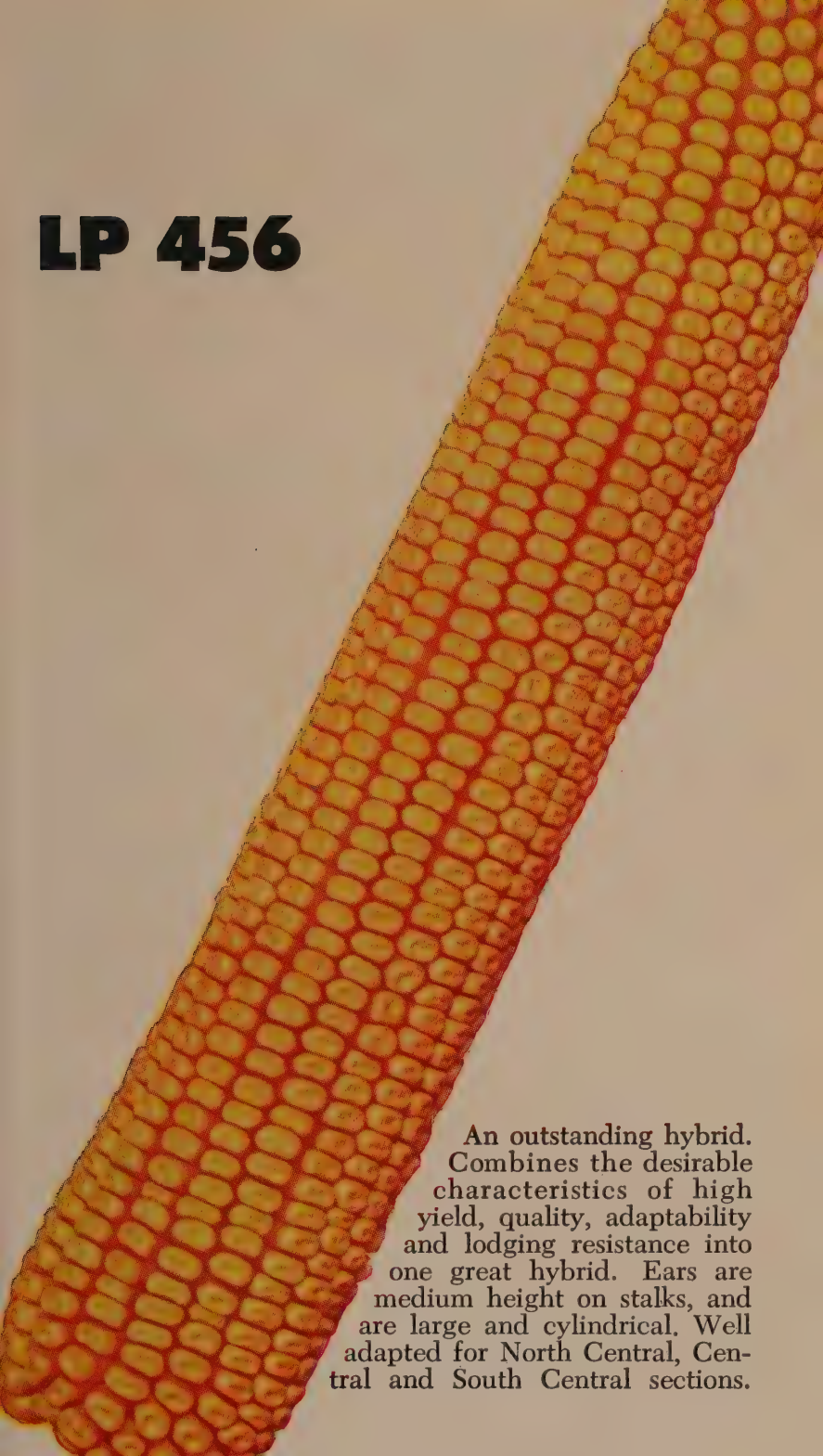
A Corn Belt favorite. Excellent quality, heavy dark green foliage, resistant to drought, disease and insects. Large cylindrical ears. Medium early maturity, stalks and ears medium height. Adapted to North Central, Central and South Central sections.

LP 555

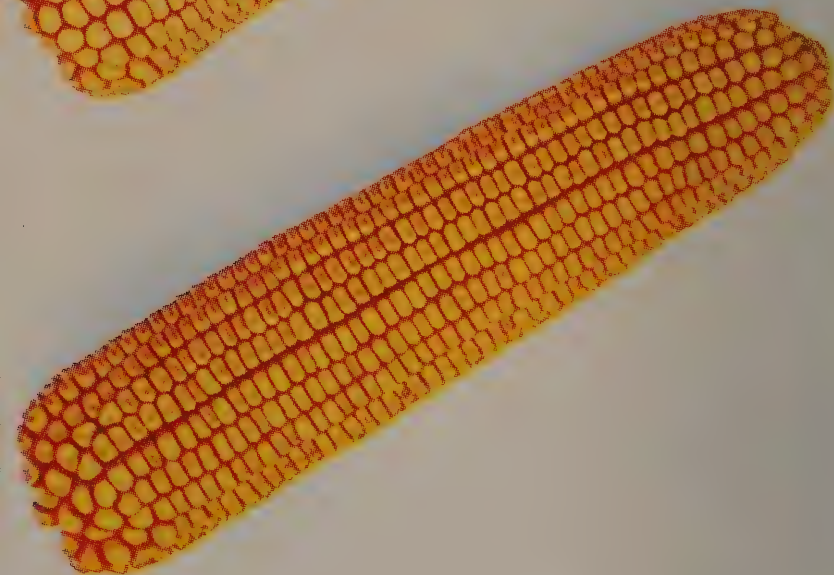
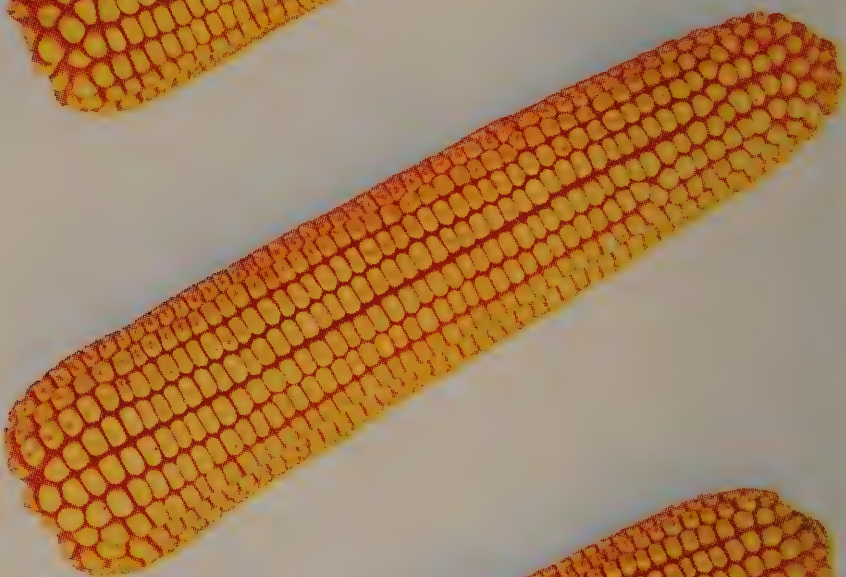
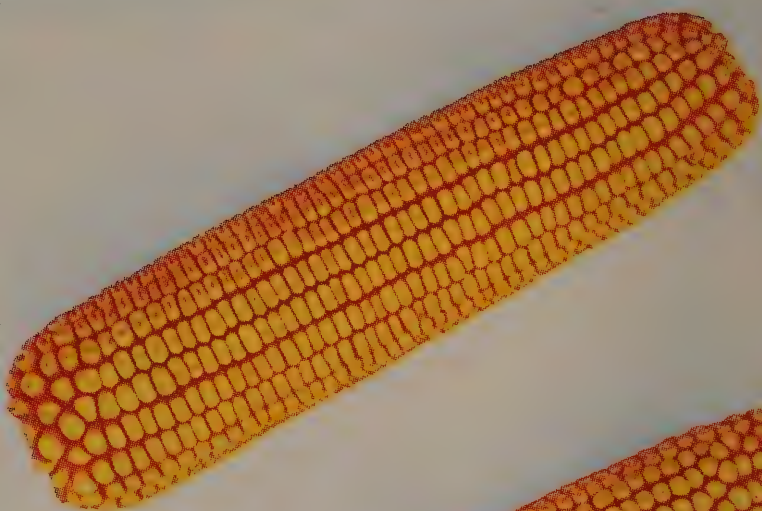


This high yielding medium-early hybrid with excellent quality grain is rapidly becoming a favorite with farmers. Stalks are medium height with well placed ears. Well adapted to a variety of soil types and has outstanding lodging resistance. Very tolerant to insects. Adapted to North Central, Central and South Central sections.

LP 456



An outstanding hybrid. Combines the desirable characteristics of high yield, quality, adaptability and lodging resistance into one great hybrid. Ears are medium height on stalks, and are large and cylindrical. Well adapted for North Central, Central and South Central sections.



PURE *Single-Cross* **HYBRIDS**

At the left are representative ears of three of the Lester Pfister pure single cross hybrids that many corn belt farmers have found to be better than the best of the double crosses. The most noteworthy improvements over the double cross hybrids include higher yield, better quality, uniformity, and easier harvesting under all conditions.

187-1

(upper) is an early single cross for the northern area.

187-5

(center) is a medium maturity single cross that is well adapted to central corn belt areas.

187-6

(lower) is a later maturing single cross that is proving quite successful on southern corn belt farms.

187-7

is similar to 187-5 in yield and maturity. Ears carried lower on shorter stalks.

Lester Pfister

LP 1897



Outstanding ability to adjust itself to variable conditions has made 1897 one of our most dependable and popular hybrids. Large cylindrical ears, deep grains, medium height, stiff stalks, good quality. Adapted to Central, South Central and Southern sections.

LP 164



One of our truly great hybrids. Large eared, deep grained, stiff stalked with medium low ears with good quality grain. This hybrid has continued to grow in popularity throughout the years. Used widely in North Central, Central and South Central sections.

LP 600



This is another new hybrid of medium maturity that is becoming a favorite in the few years it has been in production. The ear, grain, and stalk qualities are of the character that is popular with Central and South Central farmers. It is well adapted to a wide variety of soil types.

LP 666



This outstanding new hybrid combines all the desirable characteristics of high yield, lodging resistance, corn borer tolerance, quality and adaptability to a wide range of soil types. Stalks are medium height with well placed, large cylindrical ears. If your farm is in the Central, South Central or Southern sections of the corn belt, you will find LP 666 highly satisfactory.

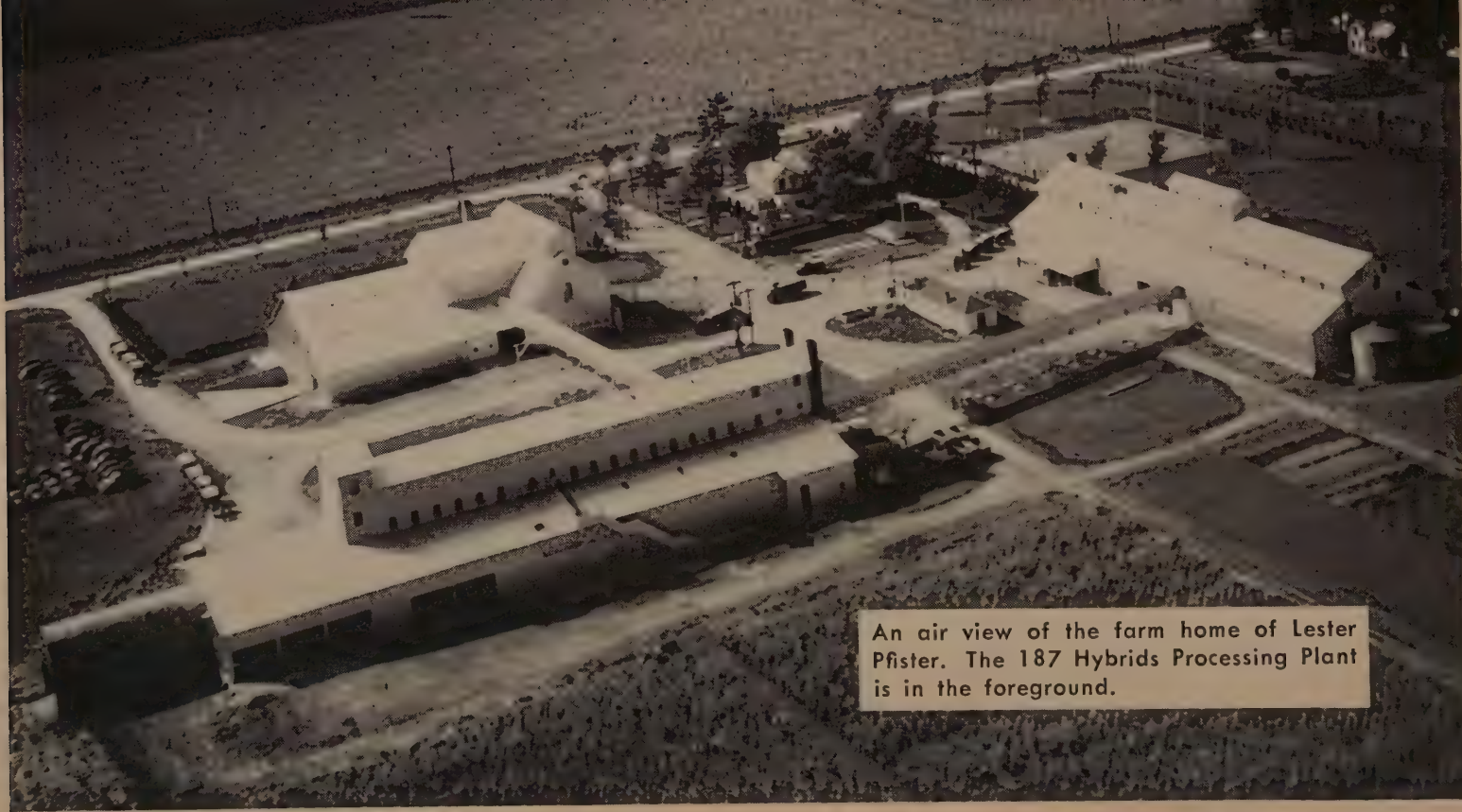
LP 777



A truly distinctive hybrid of medium maturity, well adapted to a wide range of seasonal conditions and soil types. Medium height stalks with large utility type ears. The plants are lodging resistant and insect tolerant. It is well adapted to Central, South Central and Southern sections where farmers claim it is a real champion.



Harvesting 187 Hybrid Seed Corn with a four-row picker designed and built by Lester Pfister.



An air view of the farm home of Lester Pfister. The 187 Hybrids Processing Plant is in the foreground.

HOW TO CORRECT EAR CORN YIELD FOR SHELLING PERCENTAGE

To determine the number of bushels of shelled corn represented by a given number of bushels of ear corn, use the following method: Shell 20 pounds of ear corn and weigh the shelled corn. With this weight of shelled corn refer to the table below. The percentage figure opposite the weight of shelled sample is then multiplied by the number of bushels of ear corn. This will give the number of bushels to be subtracted from or added to the original ear corn bushelage. For example: 100 bushels of ear corn (at 70 lbs.) which gives 14 lbs. of shelled corn from a 20-pound ear sample indicates that 12.5% is to be deducted. On the basis of 100 bushels, this would mean that you actually had only 87.5 bushels of shelled corn.

Weight of Shelled Sample	% to Subtract	Weight of Shelled Sample	% to Add
14.0	12.5	16.0	0.0
14.1	11.9	16.1	0.6
14.2	11.2	16.2	1.2
14.3	10.5	16.3	1.9
14.4	10.0	16.4	2.5
14.5	9.4	16.5	3.1
14.6	8.7	16.6	3.7
14.7	8.1	16.7	4.4
14.8	7.5	16.8	5.0
14.9	6.9	16.9	5.6
15.0	6.2	17.0	6.3
15.1	5.6	17.1	6.9
15.2	5.0	17.2	7.5
15.3	4.4	17.3	8.1
15.4	3.7	17.4	8.7
15.5	3.1	17.5	9.4
15.6	2.5	17.6	10.0
15.7	1.9	17.7	10.5
15.8	1.2	17.8	11.2
15.9	0.6	17.9	11.9

HOW TO CORRECT YIELDS FOR MOISTURE CONTENT

At the same time you weigh your crop, shell a 2 lb. sample and seal in a fruit jar or glassine bag. Take it to your elevator to have moisture test made.

After determining the actual moisture in sample, refer to table below. If corn is below 15.5% moisture, add weight in the amount of the percentage indicated. If corn is above 15.5% moisture, subtract an amount equal to the percentage indicated opposite the moisture in corn. For example: 100 bushels of corn with 10.5% moisture is equal to 105.9 bushels of 15.5% moisture corn or 100 bushels plus 5.9%.

% Moisture in Corn	% to Add	% Moisture in Corn	% to Add
10.5	5.9	13.0	3.0
11.0	5.3	13.5	2.4
11.5	4.7	14.0	1.8
12.0	4.1	14.5	1.2
12.5	3.6	15.0	0.6

% Moisture in Corn	% to Subtract	% Moisture in Corn	% to Subtract
15.5	0.0	20.5	5.9
16.0	0.6	21.0	6.5
16.5	1.2	22.0	7.7
17.0	1.8	23.0	8.9
17.5	2.4	24.0	10.1
18.0	3.0	25.5	11.8
18.5	3.6	30.5	17.8
19.0	4.1	35.5	23.7
19.5	4.7	40.5	29.6
20.0	5.3	50.5	41.4

**GRADE REQUIREMENTS FOR YELLOW CORN,
WHITE CORN AND MIXED CORN**

Grade No.	Mini- mum test weight per bushel	Maximum limits of—			
		Mois- ture	Cracked corn and foreign material	Damaged kernels	
				Total	Heat- damaged
	<i>Pounds</i>	<i>Percent</i>	<i>Percent</i>	<i>Percent</i>	<i>Percent</i>
1.....	54	14.0	2	3	0.1
2.....	53	15.5	3	5	.2
3.....	51	17.5	4	7	.5
4.....	48	20.0	5	10	1.0
5.....	44	23.0	7	15	3.0
Sample grade.....	Sample grade shall include corn of the class Yellow Corn, or White Corn, or Mixed Corn, which does not come within the requirements of any of the grades from No. 1 to No. 5, inclusive; or which contains stones and/or cinders; or which is musty, or sour, or heating, or hot; or which has any commercially objectionable foreign odor; or which is otherwise of distinctly low quality.				

From U. S. G. S. A. Form No. 90, Revised 1941.

***Correct Moisture Content for
No. 2 Corn***

Take the moisture test of the shelled corn and multiply the shelled corn yield by the percent above or below 15.5%—SUBTRACT this result from the shelled corn yield if ABOVE 15.5% or ADD if BELOW 15.5%. The result is the shelled corn yield per acre corrected to 15.5% or NUMBER 2 CORN.

GENERAL INFORMATION

Dry Measure

2 pints	1 qt.
8 quarts	1 peck
4 pecks	1 bushel

NOTE: A bushel contains 2150.42 cu. in.

Linear Measure

12 inches	1 foot
3 feet	1 yard
5½ yards	1 rod or pole
16½ feet	1 rod or pole
40 rods	1 furlong
8 furlongs	1 statute mile
320 rods	1 mile
5280 feet	1 mile

U.S. Government Land Measure

A township = 36 sections each 1 mile square.

A section = 640 acres.

A quarter section, half a mile square = 160 acres.

An eighth section, half a mile long and a quarter mile wide = 80 acres.

Other Land Measures

10 rods by 16 rods	1 acre
5 rods by 32 rods	1 acre
4 rods by 40 rods	1 acre
5 yards by 968 yards	1 acre
40 yards by 121 yards	1 acre
20 yards by 242 yards	1 acre
220 yards by 198 feet	1 acre
110 feet by 396 feet	1 acre
60 feet by 726 feet	1 acre
300 feet by 145.2 feet	1 acre
4840 square yards	1 acre

Square Measure

144 sq. in.....	1 square foot
9 sq. feet.....	1 square yard
30¼ sq. yds.....	1 square rod
272¼ sq. ft.....	1 square rod
160 sq. rods.....	1 acre
640 acres.....	1 square mile

HOW TO COMPUTE CAPACITY OF CRIBS

Square or Rectangular Crib

Multiply the length by the width by the depth of grain (all in feet). Multiply this sum by 2 and divide by 5. The result is the number of bushels ear corn at 70 lbs. per bu. Correct for shelling percentage and moisture as directed on preceding pages.

Round Crib

Multiply the diameter (distance across center) by the diameter. Multiply this sum by the depth (all in feet). Multiply the sum by .315. The result is bushels at 70 lbs. per bu. Correct for moisture and shelling percentages.

Piles of Corn

When heaped in form of a cone: Square the depth and square the inches of slant height (i.e., multiply each by itself). Subtract the lesser of these amounts from the greater. Multiply the difference obtained by the depth in inches. Multiply this product by .0024. The result is the bushels shelled corn at 70 lbs. bu. basis. Correct for moisture and shelling percentage. When corn is heaped against a straight wall divide this result by two.

The above formulas give bushels of 70 lb. basis ear corn. For shelled corn capacities in bushels double number bushels ear corn and correct for moisture content.

1960

JANUARY							FEBRUARY							MARCH							APRIL						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
..	..	..	..	..	1	2	..	1	2	3	4	5	6	..	..	1	2	3	4	5	..	..	..	..	..	1	2
3	4	5	6	7	8	9	7	8	9	10	11	12	13	6	7	8	9	10	11	12	3	4	5	6	7	8	9
10	11	12	13	14	15	16	14	15	16	17	18	19	20	13	14	15	16	17	18	19	10	11	12	13	14	15	16
17	18	19	20	21	22	23	21	22	23	24	25	26	27	20	21	22	23	24	25	26	17	18	19	20	21	22	23
24	25	26	27	28	29	30	28	29	..	..	..	..	..	27	28	29	30	31	..	..	24	25	26	27	28	29	30
31	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
MAY							JUNE							JULY							AUGUST						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
1	2	3	4	5	6	7	..	..	..	1	2	3	4	..	..	..	..	1	2	..	..	1	2	3	4	5	6
8	9	10	11	12	13	14	5	6	7	8	9	10	11	3	4	5	6	7	8	9	7	8	9	10	11	12	13
15	16	17	18	19	20	21	12	13	14	15	16	17	18	10	11	12	13	14	15	16	14	15	16	17	18	19	20
22	23	24	25	26	27	28	19	20	21	22	23	24	25	17	18	19	20	21	22	23	21	22	23	24	25	26	27
29	30	31	..	..	..	..	26	27	28	29	30	..	..	24	25	26	27	28	29	30	28	29	30	31	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	31	..	..	..	..	..	..	..	..	..	..	..	..	..
SEPTEMBER							OCTOBER							NOVEMBER							DECEMBER						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
..	..	..	..	1	2	3	..	..	..	..	..	1	..	..	1	2	3	4	5	..	..	..	..	1	2	3	
4	5	6	7	8	9	10	2	3	4	5	6	7	8	6	7	8	9	10	11	12	4	5	6	7	8	9	10
11	12	13	14	15	16	17	9	10	11	12	13	14	15	13	14	15	16	17	18	19	11	12	13	14	15	16	17
18	19	20	21	22	23	24	16	17	18	19	20	21	22	20	21	22	23	24	25	26	18	19	20	21	22	23	24
25	26	27	28	29	30	..	23	24	25	26	27	28	29	27	28	29	30	..	..	..	25	26	27	28	29	30	31
..	..	..	..	..	..	..	30	31	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

1961

JANUARY							FEBRUARY							MARCH							APRIL						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
1	2	3	4	5	6	7	..	..	..	1	2	3	4	..	..	..	1	2	3	4	..	..	..	..	..	1	
8	9	10	11	12	13	14	5	6	7	8	9	10	11	5	6	7	8	9	10	11	2	3	4	5	6	7	8
15	16	17	18	19	20	21	12	13	14	15	16	17	18	12	13	14	15	16	17	18	9	10	11	12	13	14	15
22	23	24	25	26	27	28	19	20	21	22	23	24	25	19	20	21	22	23	24	25	16	17	18	19	20	21	22
29	30	31	..	..	..	..	26	27	28	..	..	..	..	26	27	28	29	30	31	..	23	24	25	26	27	28	29
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	30	..	..	..	..	..	..
MAY							JUNE							JULY							AUGUST						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
..	1	2	3	4	5	6	..	..	..	..	1	2	3	..	..	..	..	..	1	..	..	1	2	3	4	5	
7	8	9	10	11	12	13	4	5	6	7	8	9	10	2	3	4	5	6	7	8	6	7	8	9	10	11	12
14	15	16	17	18	19	20	11	12	13	14	15	16	17	9	10	11	12	13	14	15	13	14	15	16	17	18	19
21	22	23	24	25	26	27	18	19	20	21	22	23	24	16	17	18	19	20	21	22	20	21	22	23	24	25	26
28	29	30	31	..	..	..	25	26	27	28	29	30	..	23	24	25	26	27	28	29	27	28	29	30	31	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	30	31	..	..	..	..	..	..	..	..	..	..	..	..
SEPTEMBER							OCTOBER							NOVEMBER							DECEMBER						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
..	..	..	..	..	1	2	1	2	3	4	5	6	7	..	..	..	1	2	3	4	..	..	..	..	1	2	
3	4	5	6	7	8	9	8	9	10	11	12	13	14	5	6	7	8	9	10	11	3	4	5	6	7	8	9
10	11	12	13	14	15	16	15	16	17	18	19	20	21	12	13	14	15	16	17	18	10	11	12	13	14	15	16
17	18	19	20	21	22	23	22	23	24	25	26	27	28	19	20	21	22	23	24	25	17	18	19	20	21	22	23
24	25	26	27	28	29	30	29	30	31	..	..	..	..	26	27	28	29	30	..	..	24	25	26	27	28	29	30
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	31	..	..	..	..	..	..



1 BUSHEL

NET WT. - 56 LBS.



**LESTER
PFISTER**

**PURE
SINGLE CROSS
SEED CORN**

GROWN AND PROCESSED UNDER
MY PERSONAL SUPERVISION
FROM INBREDS DEVELOPED BY ME

Lester Pfister

**PFISTER HYBRID CORN CO.
EL PASO, ILL.**